

Supporting Information
For
Single-Step Delamination of a MWW
Borosilicate Layered Zeolite Precursor Under
Mild Conditions Without Surfactant and
Sonication

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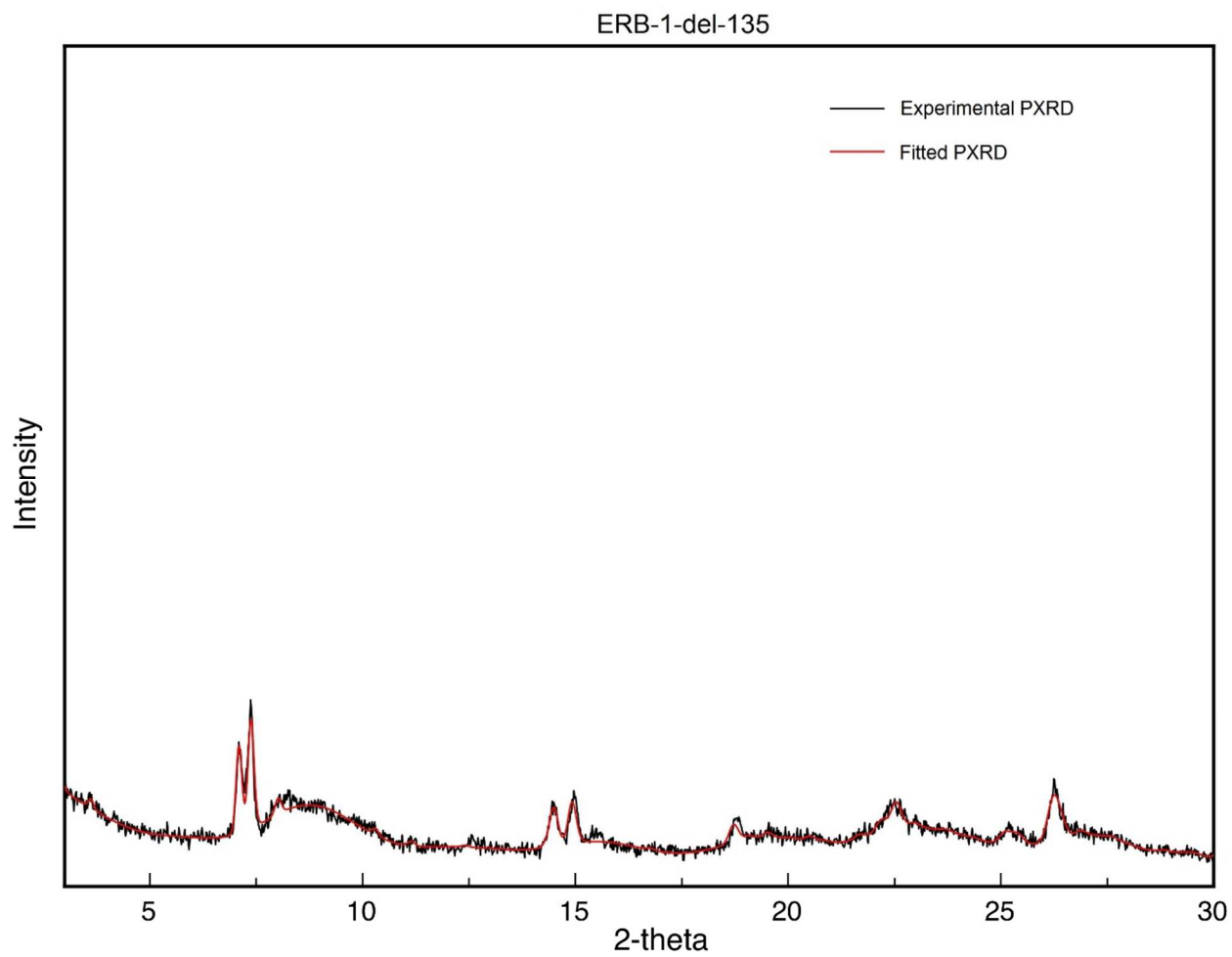


Figure S1. The whole-pattern profile-fitting of the PXRD pattern of ERB-1-del-135. Curvefit parameters are in Table S1.

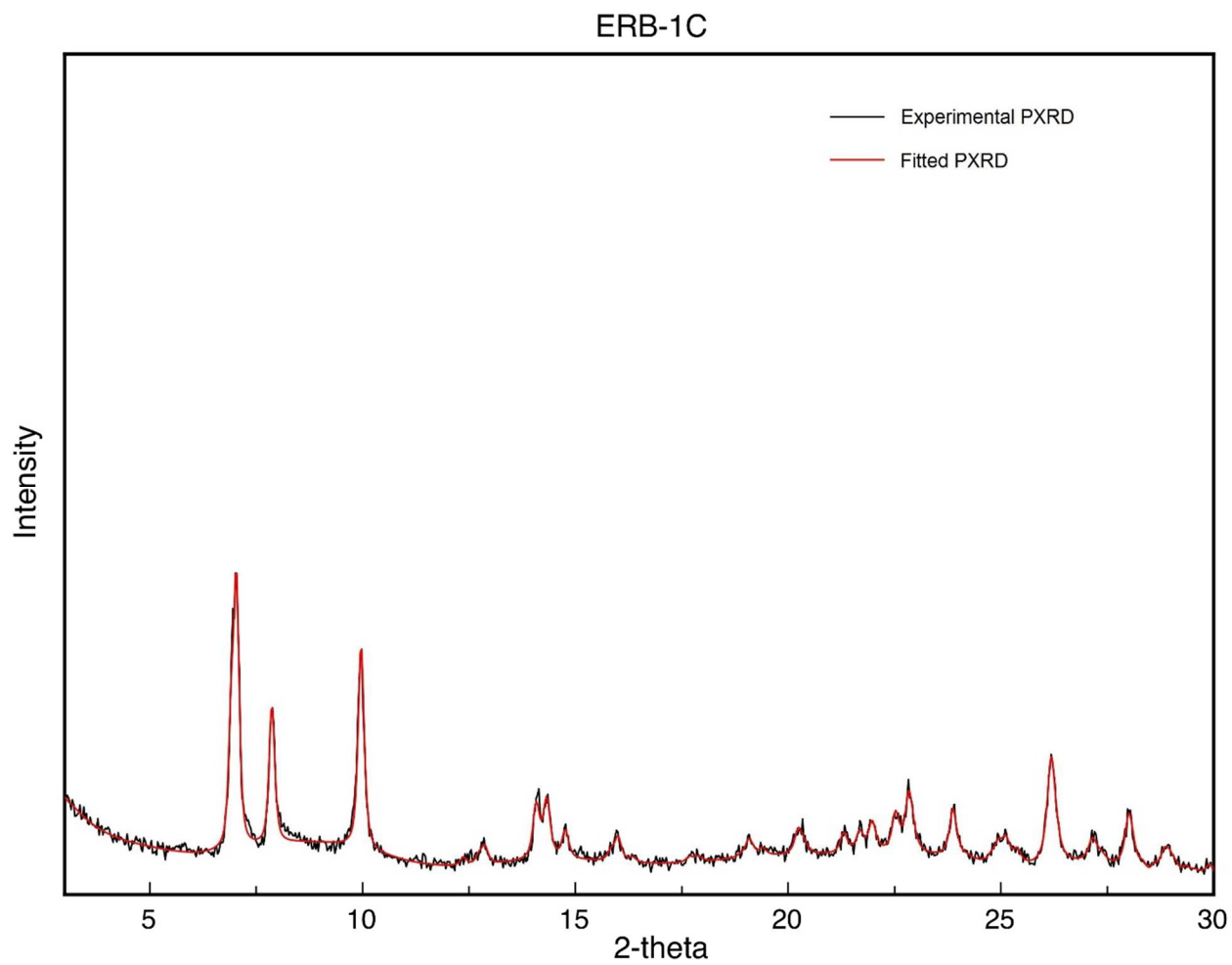


Figure S2. The whole-pattern profile-fitting of the PXRD pattern of ERB-1C. Curvefit parameters are in Table S1.

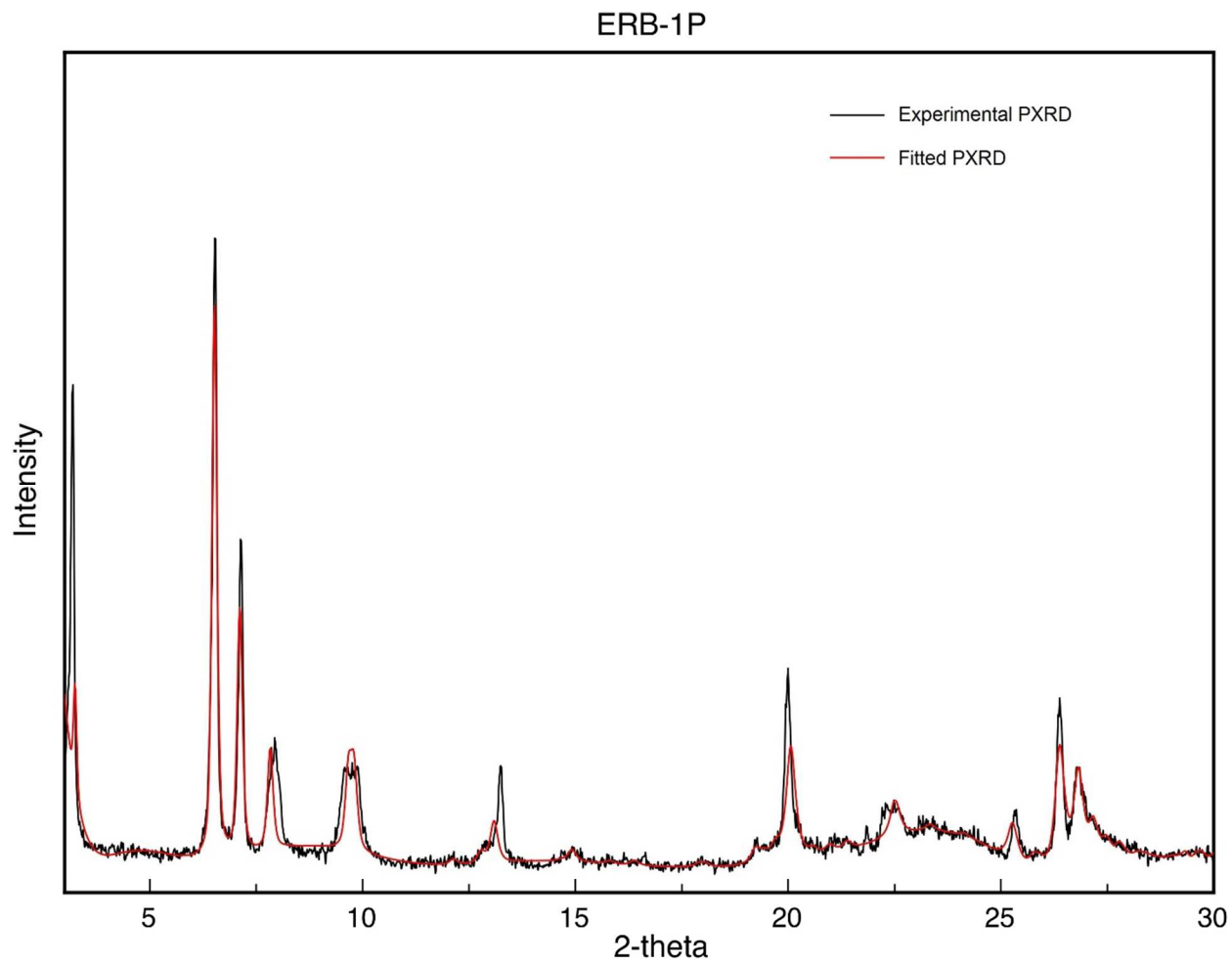
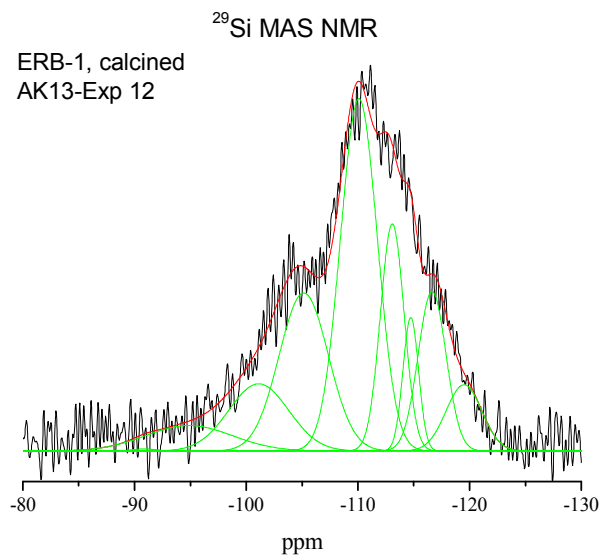


Figure S3. The whole-pattern profile-fitting of the PXRD pattern of ERB-1P. Curvefit parameters are in Table S1.

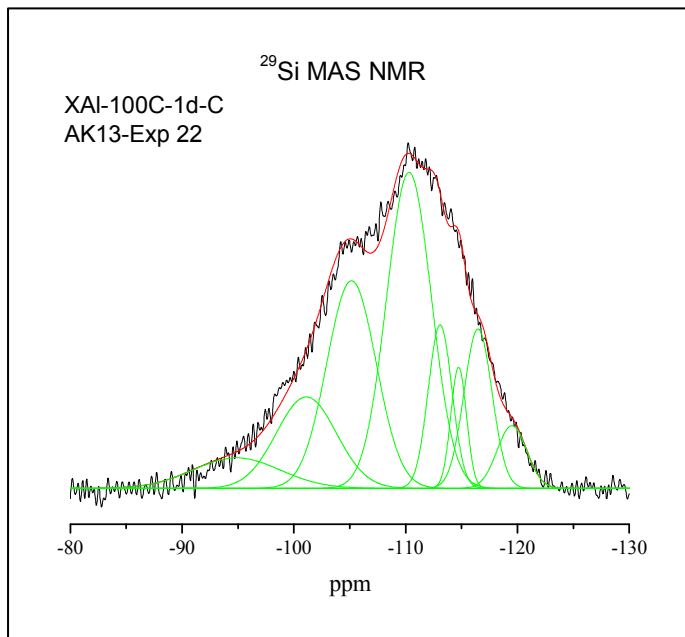
1) Calcined MWW; ERB-1C



MAS	ppm	width(Hz)	rel Intensity
Q3	-94.87	770	0.06
	-101.113	533	0.10
Q4	-105.153	439	0.20
	-110.092	328	0.33
	-113.08	211	0.14
	-114.73	139	0.05
	-116.65	249	0.11
	-119.50	318	0.06

Q3/Q4 0.18

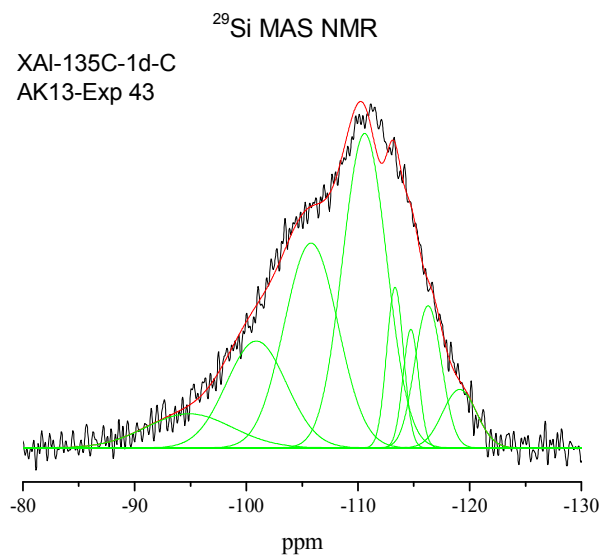
2) ERB-1-del-100



MAS	ppm	width(Hz)	rel Intensity
Q3	-94.87	770	0.06
	-101.113	534	0.13
Q4	-105.153	439	0.24
	-110.3	398	0.34
	-113.08	211	0.09
	-114.73	139	0.05
	-116.47	249	0.11
	-119.50	264	0.04

Q3/Q4 0.22

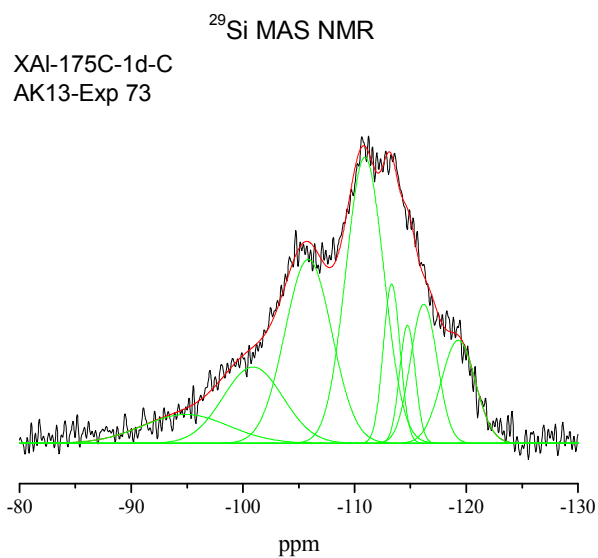
3) ERB-1-del-135



MAS	ppm	width(Hz)	rel Intensity
Q3	-94.87	770	0.07
	-100.9	534	0.15
Q4	-105.8	478	0.26
	-110.6	391	0.33
	-113.32	149	0.06
	-114.73	139	0.04
	-116.28	238	0.09
	-119.10	302	0.05

Q3/Q4 0.27

4) ERB-1-del-175



MAS	ppm	width(Hz)	rel Intensity
Q3	-94.87	770	0.07
	-100.9	534	0.13
Q4	-105.86	418	0.24
	-110.92	338	0.30
	-113.32	149	0.07
	-114.73	139	0.05
	-116.20	238	0.10
	-119.29	302	0.10

Q3/Q4 0.23

Figure S4. Curve-fitting of ²⁹Si MAS NMR spectra and calculation of the ratio of Q³/Q⁴ Si.

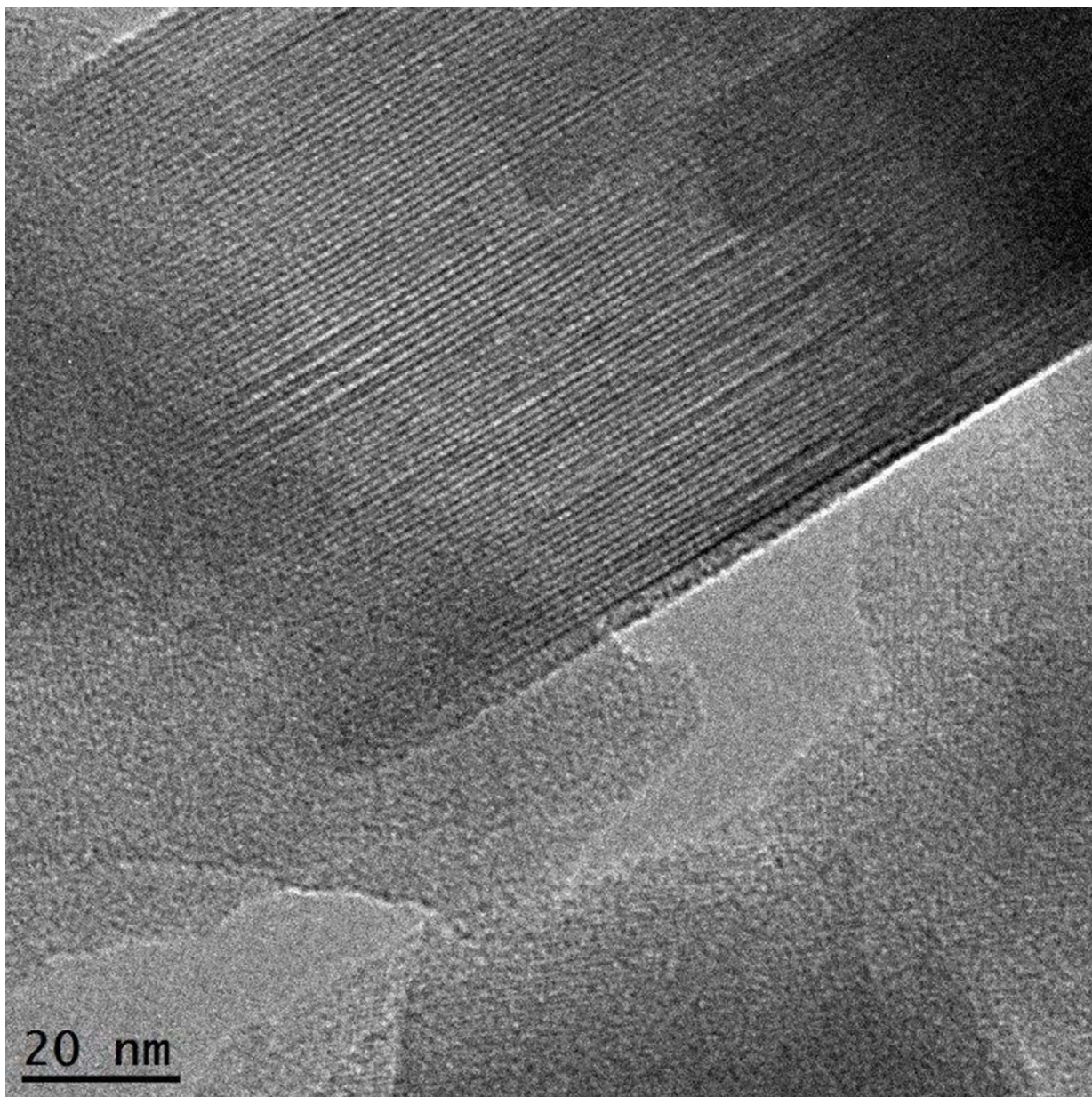


Figure S5. TEM images characterizing ERB-1P.

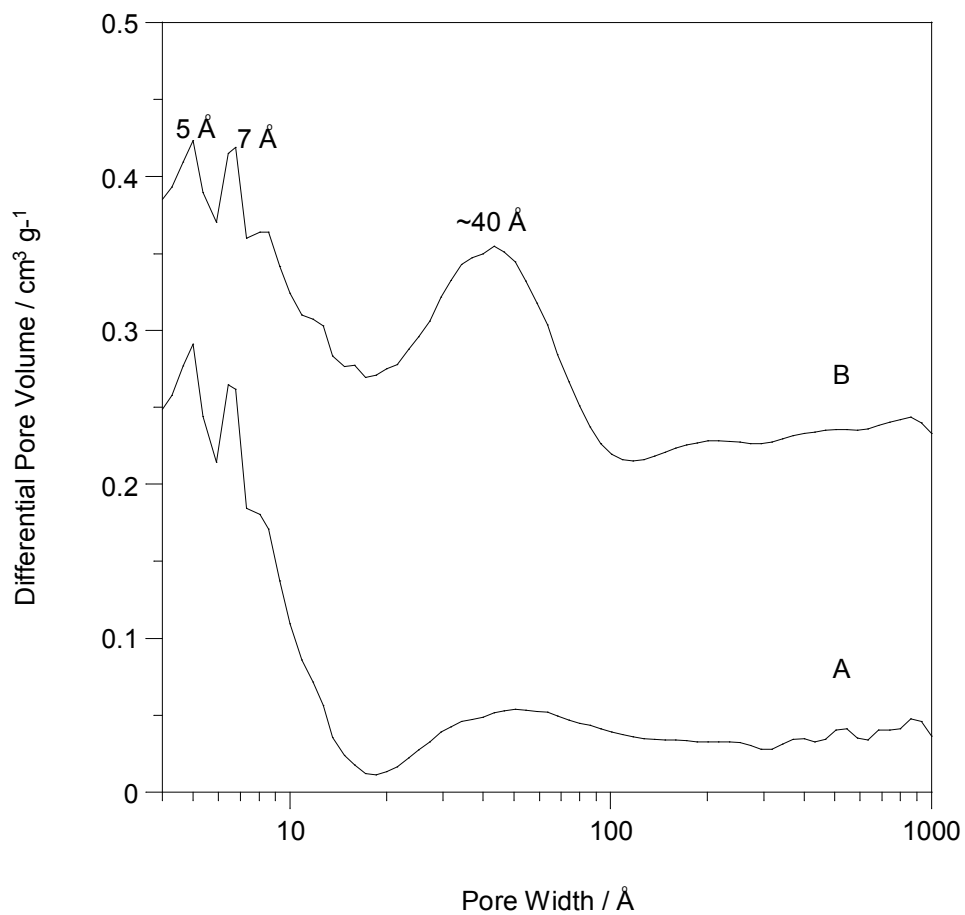


Figure S6. N₂ NLDFT differential pore volume plots over pore width distributions up to 1000 Å for (A) ERB-1C and (B) ERB-1-del-135.

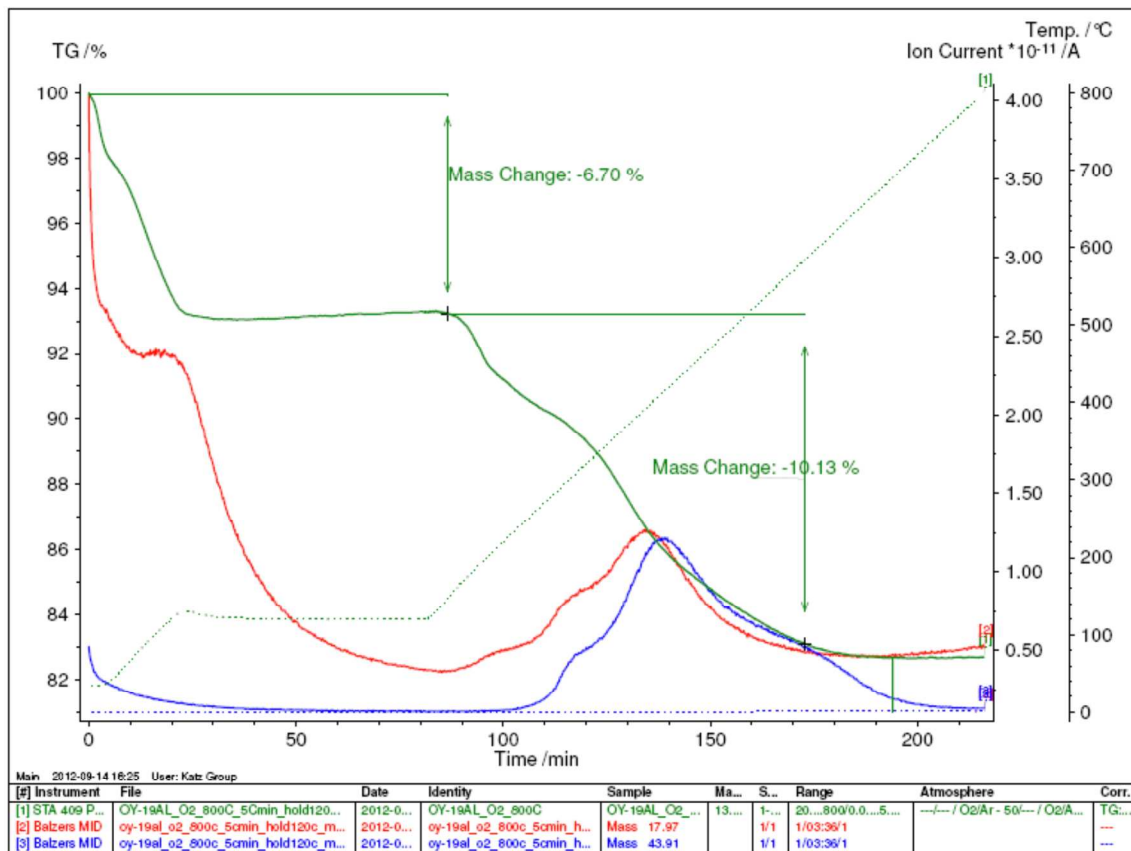


Figure S7. TGA data of ERB-1P. $m/z = 43.91$ (blue); $m/z = 17.97$ (red)

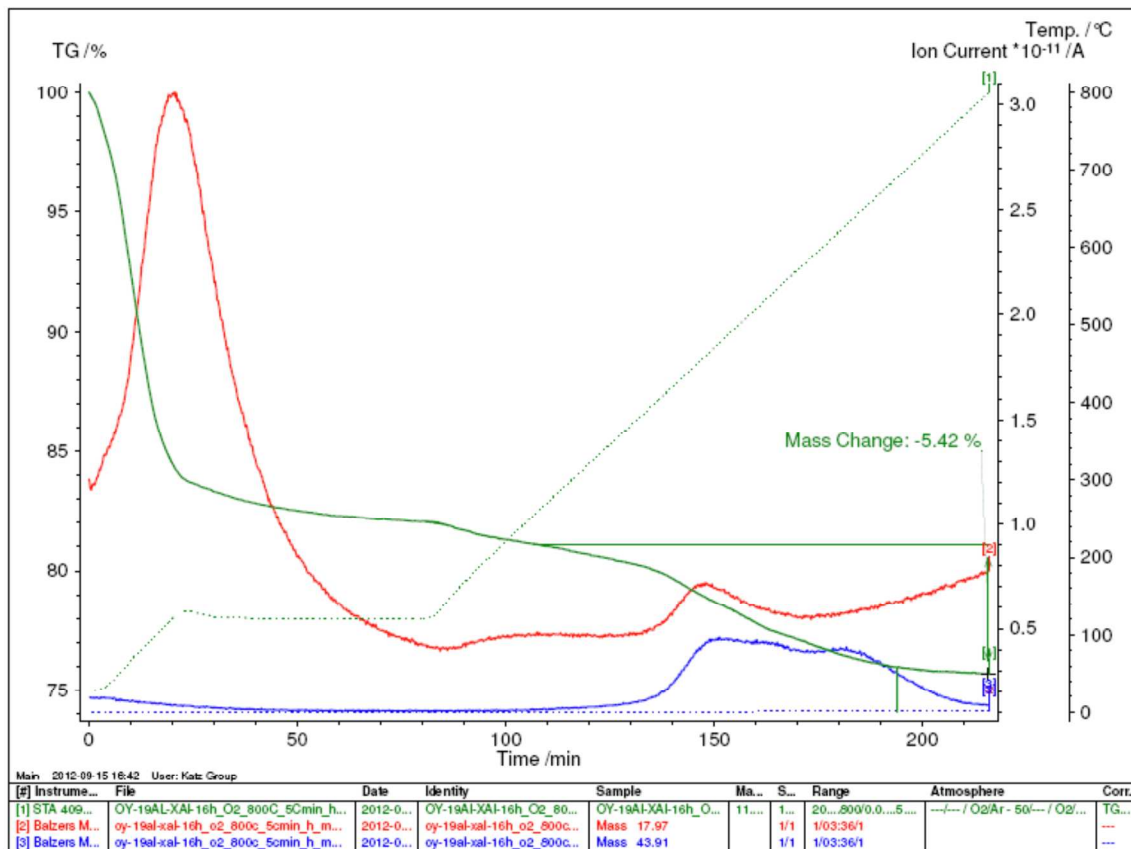


Figure S8. TGA data of ERB-1-del-135. $m/z = 43.91$ (blue); $m/z = 17.97$ (red)

Table S1

samples	Si/Al	B/L ratio	Bronsted ($\mu\text{mol/g}$)	Lewis ($\mu\text{mol/g}$)
ERB-1-del-135	15	2.9	202	68
ERB-1-del-135-deAl	44	4.3	78	17